Top Secret



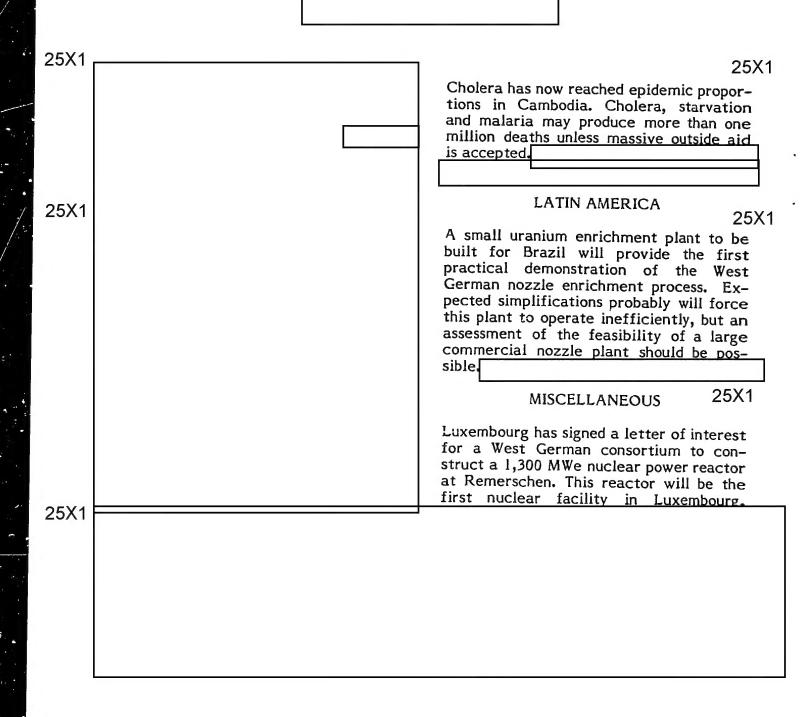
Weekly Surveyor

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Top Secret

TSWS-28/75 14 July 1975

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	WEEKLY	SURVEYOR	25X1	
2,5X	USSR AND EASTERN EUROPE	_		
1 25X1	The Soviets are building plated wire memories suited for missile and aircraft computers.	In the immedia grams in the Pisthe Peking Phycentrate on the contracts	CHINA ate future, Chinese pro- lasma Physics Division of tysics Institute will con- development of diagnostic for use in plasma physics earch.	25)
25X1		The Chinese have detector for ope temperatures	e designed a neutron flux eration at fast reactor	25X 25X 25X
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NUCLEAR ENERGY

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Future Chinese CTR Programs Are Concentrated on Developing Diagnostic Instrumentation: Programs in the Plasma Physics Division, Peking Physics Institute, will concentrate, in the immediate future, on developing diagnostic instrumentation for use in fusion research

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Comment: This is consistent with previous information indicating that the future of Chinese plasma physics and controlled thermonuclear research (CTR) depends on acquiring advanced diagnostic instruments. The Chinese have numerous basic plasma diagnostic instruments which are Chinese-made, but patterned on foreign designs.

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[PRC May Intend to Conduct Fast Reactor Related Tests: China has produced and tested successfully a pulse-type fission chamber designed to operate at 650° C. Designated the GML-20, the chamber was tested in a reactor at neutron fluxes of up to about 1 x 107 neutrons/cm ² -s.
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Luxembourg Is Acquiring a West German Nuclear Power Reactor: A West German consortium has received a letter of intent for the construction of a 1,300-MWe pressurized water reactor station at Remerschen, Luxembourg. The station was planned by Societe Luxembourgeoise d'Energie Nucleaire S. A. (SENU), a 50-50 Subsidiary of the Luxembourg government and the West German RWE (Rheinisch-Westfaelisches Elektrizitaetswerk). Brown Boveri & Cie AG which heads the consortium will supply the conventional part of the plant; Babcock-Brown Boveri Reaktor GmbH will supply the nuclear system, and Hochtief AG will be the engineer-constructor.

Comment: This reactor will be the first nuclear facility in Luxembourg. Thus far, nuclear activities in Luxembourg have been limited to the fabrication of some reactor components and peripheral equipment for other countries such as fuel handling machines for Germany and Belgium, shielding for storage and shipping containers, and irradiation capsules for research reactors.

Luxembourg budget for 1974 contained authorization and funds for the establishment of SENU and implemented the agreement concluded in July 1973 between Luxembourg and RWE. agreement called The feasibility study of the joint construction of a nuclear station on the Luxembourg-German border Remerschen, on the Moselle River. The company would be responsible for constructing the station if the studies were favorable. The station would be connected to the RWE transmission network, but Luxembourg power needs would be given priority.

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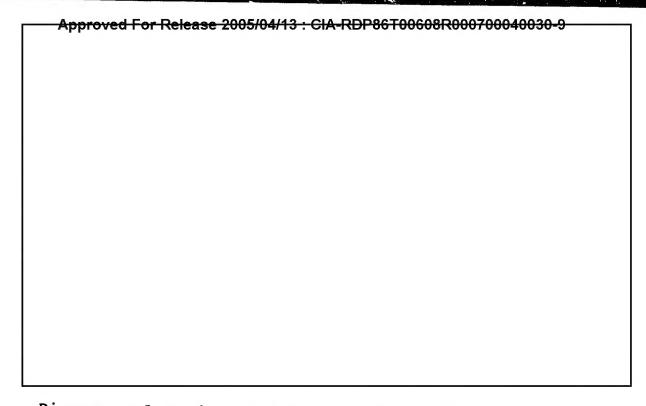
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Disease and Famine Could Cause More Than One Million Deaths in Cambodia: Some Thai relief officials and Western diplomats have estimated that more than one million Cambodians may die of starvation or hunger-related diseases in the next 18 months. Cholera has reached epidemic proportions and transportation has been halted because of fuel shortages. Rice is in very short supply, and many rice fields remain unplanted.

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<u>Comment</u>: This is the first report to state that cholera is now epidemic in Cambodia although the disease has been reported to be present in at least 11 provinces. While starvation can be expected to produce many deaths, the two main causes of death in the short-term will be cholera and malaria. Neither of these diseases is directly hunger-related.

The total effect of disease and famine under present chaotic conditions in Cambodia could well produce one million or more deaths. Cholera alone, if untreated, could produce mortality on the order of 20 to 30 percent. Falciparum malaria, the most common form of the disease in Cambodia which produces the highest mortality, has been reported to produce 2 to 10 percent mortality among untreated persons in tropical areas.

To date, the Cambodians have refused outside aid and transportation has all but halted due to fuel shortages.

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Outside medical aid could not be distributed adequately					
even if it were brought in. A current lack of sufficient rain may serve to prolong the cholera epidemic, which may in turn endanger Thailand and South Vietnam.					
in turn endanger Thailand and South Vietnam.					

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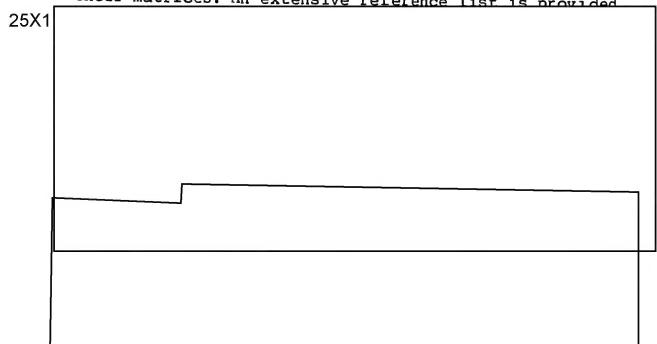
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Soviets Describe Plated Wire Memories Suitable for Military Computers: An article by L. A. Grigoryan reveals Soviet development of plated wire storage devices. article notes that plated wire has not been competitive with other technologies for general computer memory uses in the West but that it has been used for certain military applications such as in missiles. Grigoryan describes a Soviet process for making and testing the plated wire and describes the Soviet MP-2 and MP-64-72 memory matrices that have been developed to provide 128word and 64-word 72-bit memory matrices, respectively. describes Soviet techniques for magnetic also "keepers" to prevent interference in the bit positions of their matrices. An extensive reference list is provided



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